PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No.: 10/529,847 Confirmation No. 1538

Applicant: Jun SAKAMOTO et al.

Filed : June 13, 2005

TC/A.U.: 1796

Examiner : Gennadiy Mesh

Dkt. No. : IPE-052

Cust. No.: 20374

## DECLARATION UNDER 37 C.F.R. § 1.132

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

- I, Koichi DAN, declare and state THAT:
- I have a Master's degree in Kyoto University,
   Graduate School of Engineering Department of Polymer Chemistry.
- 2. Since 1999, I have been employed by Toray Industries, Inc., and from 1999 to 2005 have been a researcher in the Global Environment Research Laboratories of Toray Industries,

Inc.

- 3. I am now a Senior Researcher in the Films and Film Products Research Laboratories of Toray Industries, Inc. since 2005, and have been engaged in research and development of polymer materials from 1999 to present.
- 4. I am aware that the claims of U.S. Patent
  Application Serial No. 10/529,847 were rejected as being
  anticipated by Aoyama et al., U.S. Patent No. 6,365,659
  ("Aoyama"), in Office Actions dated June 4, 2007, and September
  19, 2007, in the application.
- 5. To demonstrate that the polyester resin compositions of Aoyama contain more than 100 particles per 0.02 mg of the compositions of titanium-containing particles having an equivalent circular diameter of  $1\mu\,\mathrm{m}$  or more, the following tests were carried out under my direction and supervision.

## EXAMPLES 1, 4-11, 13 AND 14 OF AOYAMA

Each of the polyester resin compositions of Examples 1, 4-11, 13 and 14 of Aoyama was prepared following the procedures described in these examples in Aoyama.

The number density of titanium-containing particles, i.e., the number of titanium-containing particles per 0.02 mg of each composition, having an equivalent circular diameter of  $1\mu m$  or more was measured according to the measuring method used in the examples of U.S. Patent Application Serial No. 10/529,847 as described on page 62, line 11, to page 64, line 16, of the application.

The results of the measurements are described in Table 1, "Test Results of Examples of US6365659", attached hereto and which was also attached to each of the responses filed September 4, 2007, and December 19, 2007, respectively, to the Office Actions dated June 4, 2007, and September 19, 2007.

That all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and that further these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the

application or any patent resulting therefrom.

Signed this 13 day of November, 2008.

Signed: Kouchi Dan

Name: Koichi DAN

	) not added Film properties	Number of	dropouts (accepted or	rejected/quant	ÇÇ,	Kejected/35	Rejected 40	Rejected 47	Rejected/47	Rejected/47	Rejected/47	Rejected/47	Rejected/37	Rejected/35	Rejected/42	
	Particles (X) Polyester resin		Number of	particles	(pcs/0.02 mg)	2000	300	>300	> 300	>300	>300	>300	>300	>300	>300	
	Film properties	Number of	dropouts (accented or	rejected/quanti	ty)	Hejected/60	Rejected/62	Rejected /82	Rejected /83	Rejected/51	Rejected/50	Rejected/66	Rejected/60	Rejected/65	Rejected/61	
	Polyester resin properties		Number of narticles	(pos/0.02	mg)		385		>300	>300	>300	>300	>300	>300	>300	
	metal or und (C)		Ti/metal		ratio)	0.38	20.00	-	-	1	1	1	0.3	0.46	0.12	ja -
	Alkaline earth metal or cobalt compound (C)		Metal (content	as metai	atoms) (ppm)	Cobalt (47)	Cobolt (190)	Cobalt (47)		Cobalt (47)	Cobalt (47)	Cobalt (47)	Calcium (40)	Cobalt (40)	Cobalt (180)	
	orus 1d (B)		Ti/P		ratio)	0.32	3	0.86	0.86	98.0	0.86	0.86	0.32	18	0.22	
	Phosphorus compound (B)	Content	as	us atoms	(mdd)	R .	<u> </u>	8	30	30	30	30	30	0.8	10	·
	ound oxide		as	atoms	(mdd)	2	2 6	9	40	40	40	40	15	20	17	
	Compound (A)		T:/S:	(molar	ratio)	90/10	20/08 00/08	90/10	90/10	90/10	90/10	01/06	90/10	85/15	90/10	
83859				Content	(wt%)		200	2.5	0.01	1	0.5	0.5	0.5	0.5	0.5	
oles of US	Particles (X)		Average	particle	size (µm)	0.56	0.30	0.58	0.56	0.32	0.25	2	0.56	0.56	0.56	
est Results of Examples of US8365659	Partic				$\rightarrow$	_	Titanium dioxide	_	_	L	! I				4 Titanium dioxide	
PAGE 16/16 * RCVD	AT 12/10/2	008 5	5:08:	40 PI	Y (Ea	este	n S	land	ard	lœi Tin	ioi ne]*	SV	R:U			EFXRF-5/15 * DNIS:2738300 * CSID:703 412 9345 * DURATION (mm-ss):01-54